

**INFORMATION DISCLOSURE  
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Substitute for form 1449A/PTO (Modified)		Application Number	10/782,260
		Filing Date	February 18, 2004
		First Named Inventor	BUELOW, Roland
		Art Unit	To be assigned
		Examiner Name	To be assigned
Sheet	1 of 6	Attorney Docket Number	33861/US/TAL/NHT ([A-63708-6] 465840-524)

**U.S. PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
[Signature]	A1 *	4,829,984	05-16-1989	Gordon	
	A2 *	5,563,132	10-08-1996	Bodaness	
	A3 *	5,756,492	05-26-1998	Buelow et al.	
	A4 *	6,013,641	01-11-2000	Lussow et al.	
	A5 *	6,060,467	05-09-2000	Buelow	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>3</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
[Signature]	B1 *	WO 96/09038 A2	03-28-1996	William Harvey Research Ltd.		
	B2	WO 98/09618 A2/A3	03-12-1998	SangStat Medical Corporation		
	B3	WO 99/23215 A2/A3	05-14-1999	University of Florida		
	B4	WO 00/12118 A2/A3	03-09-2000	President & Fellows of Harvard College		

**NON PATENT LITERATURE DOCUMENTS**

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[Signature]	C1	ABRAHAM, N.G., et al., "Retinal pigment epithelial cell-based gene therapy against hemoglobin toxicity," <i>Int. J. Mol. Med.</i> 1:657-663 (1998).	
	C2	ABRAHAM, N.G., et al., "The physiological significance of heme oxygenase," <i>Int. J. Biochem.</i> 20(6):543-558 (1988).	
	C3	AGARWAL, A., et al., "Gas-generating systems in acute renal allograft rejection in the rat," <i>Transplantation</i> 61(1):93-98 (Jan. 1996).	
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	C5	AMERSI, F., et al., "Carbon monoxide provides protection against ischemia/reperfusion injury in rat livers," No. 156, <i>Conf. Proc. Transplant 2001</i> , The Joint American Transplant Meeting, Chicago, IL (May 11 - 16, 2001).	
	C6 *	AMERSI, F., et al., "Upregulation of heme oxygenase-1 protects genetically fat Zucker rat livers from ischemia/reperfusion injury," <i>J. Clin. Invest.</i> 104(11):1631-1639 (Dec. 1999).	
	C7 *	ARHEHALI, A., et al., "Direct gene transfer into donor hearts at the time of harvests," <i>J. Thorac. Cardiovasc. Surg.</i> 109(4):716-719 (1995).	
	C8 *	BENTZ, J., et al., "DINAMO: interactive protein alignment and model building," <i>Bioinformatics</i> 15(4):309-316 (1999).	
	C9 *	BLYDT-HANSEN, T.D., et al., "Heme oxygenase-1 gene transfer protects against ischemia/reperfusion injury in rat renal isograft model," No. 157, <i>Conf. Proc. Transplant 2001</i> , The Joint American Transplant Meeting, Chicago, IL (May 11 - 16, 2001).	

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[Signature]	C10	BOASQUEVISQUE, C., et al., "Ex vivo liposome-mediated gene transfer to lung isografts," <i>J. Thorac. Cardiovasc. Surg.</i> 115(1):38-44 (Jan. 1998).		
	C11	BOUCHER, R., "Status of gene therapy for cystic fibrosis lung disease," <i>J. Clin. Invest.</i> 103(4):441-445 (Feb. 1999).		
	C12	BOWIE, J., et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310 (Mar. 1990).		
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	C14	BROUARD, S., et al., "Carbon monoxide generated by heme oxygenase-1 suppresses endothelial cell apoptosis through a P38 mark dependent mechanism," No. 1027, <i>Conf. Proc. Transplant 2001</i> , The Joint American Transplant Meeting, Chicago, IL (May 11 - 16, 2001).		
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	C18	CRYSTAL, R.G., "Transfer of genes to humans: early lessons and obstacles to success," <i>Science</i> 270(5235):404-410 (Oct. 1995).		
	C19	CUTURI, M., et al., "RDP1258, a New Rationally Designed Immunosuppressive Peptide, Prolongs Allograft Survival in Rats: Analysis of Its Mechanism of Action," <i>Mol. Med.</i> 5(12):820-832 (Dec. 1999).		
	C20	DEAN, P., et al., "Induction of heme oxygenase-1 with cobalt protoporphyrin fails to prolong hamster-to-rat kidney xenograft survival," No. 1266, <i>Conf. Proc. Transplant 2001</i> , The Joint American Transplant Meeting, Chicago, IL (May 11 - 16, 2001).		
	C21	DeBRUYNE, L., et al., "Gene transfer of immunomodulatory peptides correlates with heme oxygenase-1 induction and enhanced allograft survival," <i>Transplantation</i> 69(1):120-128 (Jan. 2000).		
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	C25	EVANS, C-O, et al., "Cloning and sequencing and expression of cDNA for chick liver heme oxygenase: comparison of avian and mammalian cDNAs and deduced protein," <i>Biochem. J.</i> 273:659-666 (1991).		
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[Signature]	C27	HANCOCK, W., et al., "Antibody-induced transplant arteriosclerosis is prevented by graft expression of anti-oxidant and anti-apoptotic genes," <i>Nat. Med.</i> 4(12):1392-1396 (Dec. 1998).		
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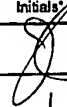
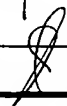
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	C30 *	ISHIKAWA, K., et al., "Expression of rat heme oxygenase in <i>Escherichia coli</i> as a catalytically active, full length form that binds to bacterial membranes," <i>Eur. J. Biochem.</i> 202:161-165 (1991).		
	C31 *	IYER, S., et al., "Characterization and biological significance of immunosuppressive peptide D2702.75-84 (E → V) binding protein," <i>J. Biol. Chem.</i> 273(5):2692-2697 (1998).		
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	C35 *	KUEMMERLE, N.B., et al., "Gene expression after intrarenal injection of plasmid DNA in the rat," <i>Pediatr. Nephrol.</i> 14(2):152-157 (2000).		
	C36 *	LEDLEY, F.D., "Pharmaceutical approach to somatic gene therapy," <i>Pharm. Rev.</i> 13(11):1595-1614 (Nov. 1996).		
	C37 *	LEE, P.J., et al., "Overexpression of heme oxygenase-1 in human pulmonary epithelial cells results in cell growth arrest and increased resistance to hyperoxia," <i>Proc. Natl. Acad. Sci. USA</i> 93(19):10393-10398 (Sep. 1996).		
	C38 *	LEE, R., et al., "Isolated lung liposome-mediated gene transfer produces organ-specific transgenic expression," <i>Ann. Thorac. Surg.</i> 66:903-907 (1998).		
	C39 *	LEVINE, F., et al., "Towards gene therapy of diabetes mellitus," <i>Mol. Med. Today</i> 5:165-171 (Apr. 1999).		
	C40 *	LI, X.K., "Prolonged survival of rat liver allografts transfected with Fas ligand-expressing plasmid," <i>Transplantation</i> 66:1416-1423 (1998).		
	C41	MAGEE, J.C., et al., "Gene transfer of immunosuppressive peptides B2702 and RDP1257 prolongs allograft survival: evidence suggesting a role for heme oxygenase-I," <i>Transplant. Proc.</i> 31(1-2):1194-1194 (Feb. - Mar. 1999).		
	C42	MAINES, M., "Zinc protoporphyrin is a selective inhibitor of heme oxygenase activity in the neonatal rat," <i>Biochim. Biophys. Acta</i> 673:339-350 (1981).		
	C43 *	MARCONI, P., et al., "Replication-defective herpes simplex virus vectors for gene therapy <i>in vivo</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 93(21):11319-11320 (Oct. 1996).		
	C44	MARTASEK, P., et al., "Properties of human kidney heme oxygenase: inhibition by synthetic heme analogues and metalloporphyrins," <i>Biochem. Biophys. Res. Commun.</i> 157(2):480-487 (Dec. 1988).		
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	C46 *	MELO, L.G., et al., "Gene therapy strategy for long-term myocardial protection using adeno-associated virus mediated delivery of heme oxygenase gene," <i>Circulation</i> 105:602-607 (2002).		
	C47 *	MILLER, N., et al., "Targeted vectors for gene therapy," <i>FASEB J.</i> 9(2):190-199 (Feb. 1995).		

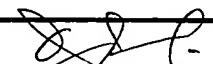
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	C48 *	MOFFATT, S.D., et al., "Comparison between tacrolimus and cyclosporine as immunosuppressive agents compatible with tolerance induction by CD4/CD8 blockade," <i>Transplantation</i> 69(8):1724-1726 (Apr. 2000).		
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	C57 *	QIN, L., et al., "Multiple vectors effectively achieve gene transfer in a murine cardiac transplant model," <i>Transplantation</i> 59:809-816 (1995).		
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	C60 *	RAJU, V., et al., "Coordinated expression and mechanism of induction of HSP32 (heme oxygenase-1) mRNA by hyperthermia in rat organs," <i>Biochim. Biophys. Acta</i> 1217:273-280 (1994).		
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	C65 *	SCHMITT, M.P., "Utilization of host iron sources by <i>Corynebacterium diphtheriae</i> : identification of a gene whose product is homologous to eukaryotic heme oxygenases and is required for acquisition of iron from heme and hemoglobin," <i>J. Bact.</i> 179(5):838-845 (1997).		

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Sheet	5	of	6	Attorney Docket Number	33861/US/TAL/NHT ([A-63708-6] 465840-524)

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
X	C66 *	SCHULER, W., et al., "SDZ RAD, a new rapamycin derivative: pharmacological properties <i>in vitro</i> and <i>in vivo</i> ," <i>Transplantation</i> 64(1):32-35 (Jul. 1997).		
	C67 *	SCHULLER, D.J., "Crystal structure of heme oxygenase-1," <i>Nat. Struct. Biol.</i> 6(9):860-867 (Sep. 1999).		
	C68 *	SHAKED, A., et al., "Retroviral-mediated gene transfer into rat experimental liver transplant," <i>Transplantation</i> 57:32-34 (1994).		
	C69 *	SINAL, C.J., et al., "Liver transplantation induces cytochrome P450 1A1 dependent monooxygenase activity in rat lung and kidney," <i>Can. J. Physiol. Pharmacol.</i> 73:146-152 (1995).		
	C70 *	SOARES, M.P., et al., "Expression of heme oxygenase-1 can determine cardiac xenograft survival," <i>Nat. Med.</i> 4(9):1073-1077 (Sep. 1998).		
	C71 *	SONG, Y.K., et al., "Enhanced gene expression in mouse lung by prolonging the retention time of intravenously injected plasmid DNA," <i>Gene Ther.</i> 5(11):1531-1537 (1998).		
	C72	SQUIERS, E., et al., "Prolongation of porcine islet xenograft survival in mice after therapy with immunosuppressive peptides," <i>Transplantation</i> 66(11):1558-1565 (Dec. 1998).		
	C73 *	TEMPLETON, N., et al., "New Direction in Liposome Gene Delivery," <i>Mol. Biotechnol.</i> 11(2):175-180 (Apr. 1999).		
	C74 *	TENHUNEN, R., et al., "Microsomal Heme Oxygenase," <i>J. Biol. Chem.</i> 244(23):6388-6394 (Dec. 1969).		
	C75 *	VERMA, I., et al., "Gene therapy - promises, problems and prospects," <i>Nature</i> 389(6648):239-242 (Sep. 1997).		
	C76 *	VORBURGER, S., et al., "Adenoviral Gene Therapy," <i>Oncologist</i> 7(1):46-59 (Feb. 2002).		
	C77 *	WANG, J., et al., "Adenovirus-mediated gene transfer into rat cardiac allografts," <i>Transplantation</i> 61(12):1726-1729 (Jun. 1996).		
	C78	WANG, N., et al., "Xenograft accommodation: expression of heme oxygenase-1 protects endothelial cells from xenoserum-mediated apoptosis," No. 993, <i>Conf. Proc. Transplant 2001</i> , The Joint American Transplant Meeting, Chicago, IL (May 11 - 16, 2001).		
	C79 *	WEISS, G., et al., "Comparative effects of heme and metalloporphyrins on interferon-γ-mediated pathways in monocytic cells (THP-1)," <i>Proc. Soc. Exp. Biol. Med.</i> 202(4):470-475 (Apr. 1993).		
	C80 *	WILKS, A., et al., "Rat liver heme oxygenase: high level expression of a truncated soluble form and nature of the meso-hydroxylating species," <i>J. Biol. Chem.</i> 268(30):22357-22362 (Oct. 1993).		
	C81 *	WILLIS, D., et al., "Heme oxygenase: a novel target for the modulation of the inflammatory response," <i>Nat. Med.</i> 2(1):87-90 (Jan. 1996).		
	C82 *	WOO, J., et al., "Alleviation of graft-versus-host disease after conditioning with cobalt-protoporphyrin, an inducer of heme oxygenase-1," <i>Transplantation</i> 69(4):623-633 (Feb. 2000).		
	C83 *	WRINGER, E.J., et al., "Antagonizing leukotriene B4 receptors delays cardiac allograft rejection in mice," <i>Transplantation</i> 67(6):808-815 (Mar. 1999).		
	C84 *	XIA, Q.I., et al., "Production of high titer recombinant adeno-associated virus vectors in the absence of helper adenovirus," <i>J. Virol.</i> 72(3):2224-2232 (Mar. 1998).		
	C85 *	YOSHIDA, T., et al., "Human heme oxygenase cDNA and induction of its mRNA by hemin," <i>Eur. J. Biochem.</i> 171(3):457-461 (Feb. 1988).		

Examiner Signature		Date Considered	2/22/06
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
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				Application Number	10/782,260
				Filing Date	February 18, 2004
				First Named Inventor	BUELOW, Roland
				Art Unit	To be assigned
				Examiner Name	To be assigned
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	C86	ZHU, N., et al., "Systemic gene expression after intravenous DNA delivery into adult mice," <i>Science</i> 261(5118):208-211 (Jul. 1993).	

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